



Department of
**Environment &
Conservation**

Temporary HHW Containers, Convenience to the Citizens

Environmental Show of the South

How Much HHW?

Season	Number of Events or Episodes	Total Cost	Total Weight Collected in lbs.	Mobile Events Number Totals	Total HHW Event Participation by Households	Participation by Households per HHW Event	HHW Weight Collected in lbs.	Weight per Event	Total HHW Event Cost	Cost per HHW Event	Cost per pound	Cost per HH
2014	61	\$ 409,441.70	351,891	486,440	267	255,756	10,549.89	\$ 383,516.04	\$ 15,970.86	\$ 3.07	\$ 119.75	
2015	73	\$ 418,943.44	387,549	526,615	254	234,412	9,015.85	\$ 384,222.99	\$ 14,777.81	\$ 3.27	\$ 117.50	
2016	73	\$ 423,388.05	329,549	546,716	248	187,438	6,928.39	\$ 381,020.45	\$ 14,091.90	\$ 4.07	\$ 114.05	
2017	76	\$ 502,993.50	360,424	567,631	274	215,345	7,721.93	\$ 459,842.98	\$ 16,468.58	\$ 4.27	\$ 120.49	

BOPAE

- Counties / Municipalities Manage:
 - Batteries
 - Concern for Lithium,
 - Fires in recycle and solid waste facilities
 - Oil
 - Over 6 million gallons of oil collected in Tennessee
 - 1 gallon of oil will contaminate a million gallons of water
 - Paint
 - Encourage residents to solidify latex, discard in trash
 - Partner with haulers/convenience staff to take solidified paint
 - Antifreeze
 - Providing containers for collection as part of oil grant
 - Electronics
 - Stored according to storm water regulations
 - Stacked and stored safely

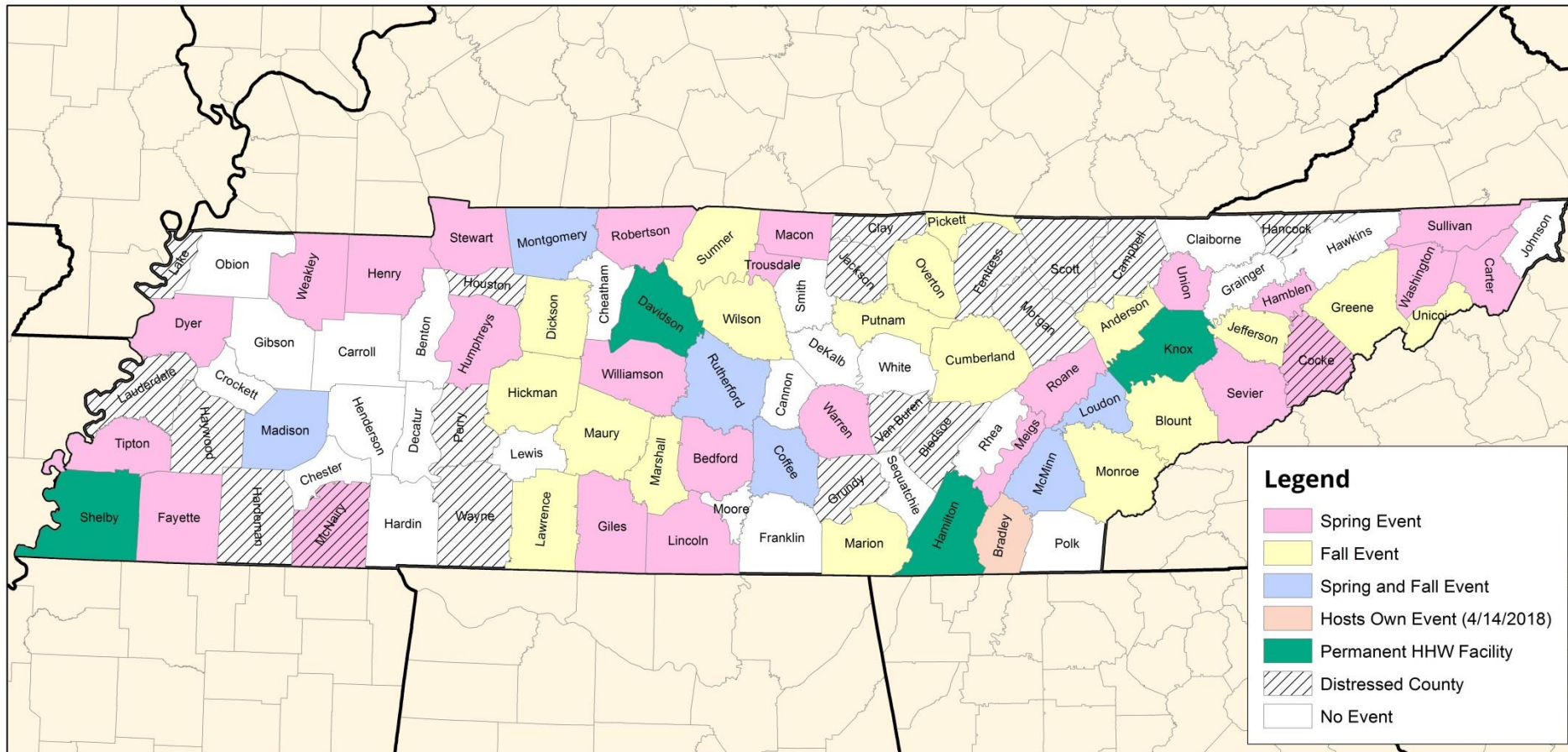


Tennessee Options

- Permanent Facilities
 - Memphis-Shelby County
 - Nashville-Davidson County
 - Knoxville-Knox County
 - Chattanooga-Hamilton County
 - Coming on line:
 - Cookeville-Putnam County and surrounding counties
 - Grant Applicants
 - Montgomery County submitted application
 - They will serve surrounding and other counties



2018 Household Hazardous Waste Events



Tennessee Options

- The Future:
 - Temporary HHW Collection Facilities
 - THHWCF
- Applicants
 - Athens
 - Blount
 - Chester
 - Giles
 - Grainger



THHWCF Benefits

- Convenience
 - Year Round Collection Options
- Open to all counties
- TDEC pays for disposal
- Training for staff
- Minimal Hazards
 - No Electricity
 - No Water
- Emptied as needed
 - Contractor
- Provide space for other materials



THHWCF Challenges

- Is space available to locate container
- Staff will be needed to handle materials
- Containers of flammables will not be returned
 - No bulking on site as mobile events
- Staff will need to be trained
 - TDEC will provide training and job aids
- No Unknowns



THHWCF in Missouri



HHW Training

- HHW & CESQG Collection Operations
 - SWANA & NAHMMA Partnership
 - 24 hour course
 - Option for SWANA Certification
 - Training Date: November 5-8, 2018
- Waste Screening
 - SWANA WASTECON
 - August 2018, Nashville



Problem Waste Opportunities

- Waste Tire Workshops:
- Jackson EFO: June 19, 2018; 9-12 Central
- Columbia EFO: June 26, 2018; 9-12 Central
- Knoxville EFO: June 28, 2018; 9-12 Eastern



Waste Tire Workshop Agenda



Waste Tire Workshop
 Jackson EFO: June 19, 2018
 Columbia EFO: June 26, 2018
 Knoxville EFO: June 28, 2018
 9-12 Local Time

Day	Time	Instructor	Course/Description and Objectives
Tuesday Jackson	9:00 – 9:15 a.m.	Bob Fletcher <i>Environmental Consultant, DSWM</i>	"Welcome and Overview" Welcome workshop participants. Meet and greet among attendees.
Tuesday Columbia	9:15 – 9:30 a.m.	Jeremy Hooper <i>DSWM Permitting Section</i>	"Tire Permitting sites" A discussion on how a waste tire site should be established and ways to prevent tire sites from becoming an illegal dump. The actions the EFO take to establish an approved site and begin monitoring. <i>Objective: Understanding the requirements for an approved waste tire accumulation sites.</i>
Thursday Knoxville	9:30- 10:00 a.m.	Bob Fletcher	"Waste Tire Toolkit" A discussion and sharing of tools to assist with the financial and administrative tasks to manage a waste tire program. How to use the electronic spread sheet for calculating waste tire fees. <i>Objective: Counties become familiar with the diverse aspects of managing waste tires and have a reference manual for current and future staff.</i>
	10:00- 10:30 a.m.	ALL	Break and Group Networking
	10:30- 11:00	Bob Fletcher	"Waste Tire Toolkit" Continues
	11:00 – 11:45 a.m.	EFO DSWM Staff Rob Burnett Jackson Workshop Jeff Norman Columbia Workshop Harry McCann, Knoxville Workshop	"Environmental Field Office: Enforcement of Unpermitted Waste Tire Pile Sites" A walk through the Department's tire enforcement resources and program methodology to better understand options in reporting and cleaning up Unpermitted Waste Tire Pile Sites. A review of enforcement sites and action steps that have been taken. <i>Objective: Understanding of enforcement resources available from TDEC to assist county programs in managing Unpermitted Waste Tire Pile Sites.</i>
	11:45 – 12:00 a.m.	Bob Fletcher	"Final Lessons Learned and Closing Comments" A wrap up discussion on topics presented. <i>Objective: Review the overall program and deliverables identified during the session workshop and if applicable determine next steps.</i>

• Questions??

Bob Fletcher, CET, CHMM

Materials Management

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